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44

45 46 (C) TELEX:

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/884,073

DATE: 12/17/97 TIME: 10:55:35

INPUT SET: S22123.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

ENTERE

```
1
                                        SEQUENCE LISTING
 2
            General Information
 3
     (1)
 4
 5
             (i) APPLICANT: Hawkins, Phillip R.
 6
                                          Murry, Lynn E.
 7
 8
            (ii) TITLE OF INVENTION: A NOVEL TISSUE INHIBITOR OF
 9
                                          METALLOPROTEINASES
10
11
            (iii) NUMBER OF SEQUENCES: 5
12
            (iv) CORRESPONDENCE ADDRESS:
13
14
              (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
15
              (B) STREET: 3174 Porter Drive
16
              (C) CITY: Palo Alto
17
              (D) STATE: CA
18
              (E) COUNTRY: US
19
              (F) ZIP: 94304
20
21
            (V) COMPUTER READABLE FORM:
22
              (A) MEDIUM TYPE: Diskette
23
              (B) COMPUTER: IBM Compatible
24
              (C) OPERATING SYSTEM: DOS
25
              (D) SOFTWARE: FastSEQ Version 1.5
26
27
            (vi) CURRENT APPLICATION DATA:
28
              (A) APPLICATION NUMBER: 08/884,073
29
              (B) FILING DATE: 27-JUN-1997
30
              (C) CLASSIFICATION: 514
31
32
            (vii) PRIOR APPLICATION DATA:
33
              (A) APPLICATION NUMBER: 08/588,163
34
              (B) FILING DATE: 18-JAN-1996
35
36
            (viii) ATTORNEY/AGENT INFORMATION:
37
              (A) NAME: Luther, Barbara J.
38
              (B) REGISTRATION NUMBER: 33,954
39
              (C) REFERENCE/DOCKET NUMBER: PF-0053
40
41
            (ix) TELECOMMUNICATION INFORMATION:
42
              (A) TELEPHONE: 415-855-0555
43
              (B) TELEFAX: 415-852-0195
```

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# RAW SEQUENCE LISTING PATENT APPLICATION US/08/884,073

DATE: 12/17/97 TIME: 10:55:40 INPUT SET. \$22123 Part

	INPUT SET: S22123	INPUT SET: S22123.raw	
47	(2) INFORMATION FOR SEQ ID NO:1:		
48			
49	(i) SEQUENCE CHARACTERISTICS:		
50	(A) LENGTH: 675 base pairs		
51	(B) TYPE: nucleic acid		
52	(C) STRANDEDNESS: single		
53	(D) TOPOLOGY: linear		
54 55	(ii) NOIEGUIE MUDE, -DWA		
56	(ii) MOLECULE TYPE: cDNA		
57	(vii) IMMEDIATE SOURCE:		
58	(A) LIBRARY: METALLOPROTEINASES		
59	(B) CLONE: 589345		
60	(2) 02002: 303343		
61	(xi) SEQUENCE DESCRIPTION: SEO ID NO:1:		
62	( , <u>2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 </u>		
63	ATGCCTGGGA GCCCTCGGCC CGCGCCAAGC TGGGTGCTGT TGCTGCGGCT GCTGGCGTTG	60	
64	CTGCGGCCCC CGGGGCTGGG TGAGGCATGC AGCTGCGCCC CGGCGCACCC TCAGCAGCAC	120	
65	ATCTGCCACT CGGCACTTGT GATTCGGGCC AAAATCTCCA GTGAGAAGGT AGTTCCGGCC	180	
66	AGTGCAGACC CTGCTGACAC TGAAAAAATG CTCCGGTATG AAATCAAACA GATAAAGATG	240	
67	TTCAAAGGGT TTGAGAAAGT CAAGGATGTT CAATATATCT ATACGCCTTT TGACTCTTCC	300	
68	CTCTGTGGTG TGAAACTAGA AGCCAACAGC CAGAAGCAGT ATCTCTTGAC TGGTCAGGTC	360	
69	CTCAGTGATG GAAAAGTCTT CATCCATCTG TGCAACTACA TCGAGCCCTG GGAGGACCTG	420	
70	TCCTTGGTGC AGAGGGAAAG TCTGAATCAT CACTACCATC TGAACTGTGG CTGCCAAATC	480	
71	ACCACCTGCT ACACAGTACC CTGTACCATC TCGGCCCCTA ACGAGTGCCT CTGGACAGAC	540	
72	TGGCTGTTGG AACGAAAGCT CTATGGTTAC CAGGCTCAGC ATTATGTCTG TATGAAGCAT	600	
73	GTTGACGCA CCTGCAGCTG GTACCGGGGC CACCTGCCTC TCAGGAAGGA GTTTGTTGAC	660	
74	ATCGTTCAGC CCTAG	675	
75 76			
75 77	(2) INFORMATION FOR SEQ ID NO:2:		
78	(2) INFORMATION FOR SEQ ID NO:2:		
79	(i) SEQUENCE CHARACTERISTICS:		
80	(A) LENGTH: 224 amino acids		
81	(B) TYPE: amino acid		
82	(C) STRANDEDNESS: single		
83	(D) TOPOLOGY: linear		
84	• •		
85	(ii) MOLECULE TYPE: peptide		
86			
87	(vii) IMMEDIATE SOURCE:		
88	(A) LIBRARY: METALLOPROTEINASES		
89	(B) CLONE: 589345		
90			
91	. 1		
92	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:		
93	Not Dwo Clu Con Dwo Ann Dwo Ale Don Con Con Con Con Con Con Con Con Con C		
94 95	Met Pro Gly Ser Pro Arg Pro Ala Pro Ser Trp Val Leu Leu Leu Arg		
95 96	1 5 10 15 15 Lev Lev Arg Bro Bro Cly Lev Cly Ala Gya Sar Gya		
97	Leu Leu Ala Leu Leu Arg Pro Pro Gly Leu Gly Glu Ala Cys Ser Cys 20 25 30		
98	Ala Pro Ala His Pro Gln Gln His Ile Cys His Ser Ala Leu Val Ile		
99	35 40 45		

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/884,073

DATE: 12/17/97 TIME: 10:55:45

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INPUT SET: S22123.raw
      Arg Ala Lys Ile Ser Ser Glu Lys Val Val Pro Ala Ser Ala Asp Pro
100
101
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      Ala Asp Thr Glu Lys Met Leu Arg Tyr Glu Ile Lys Gln Ile Lys Met
102
                           70
103
      Phe Lys Gly Phe Glu Lys Val Lys Asp Val Gln Tyr Ile Tyr Thr Pro
104
                                           90
105
      Phe Asp Ser Ser Leu Cys Gly Val Lys Leu Glu Ala Asn Ser Gln Lys
106
107
                                       105
                                                            110
      Gln Tyr Leu Leu Thr Gly Gln Val Leu Ser Asp Gly Lys Val Phe Ile
108
                                                        125
109
                                   120
      His Leu Cys Asn Tyr Ile Glu Pro Trp Glu Asp Leu Ser Leu Val Gln
110
                               135
                                                    140
111
      Arg Glu Ser Leu Asn His His Tyr His Leu Asn Cys Gly Cys Gln Ile
112
                                                155
113
                           150
       Thr Thr Cys Tyr Thr Val Pro Cys Thr Ile Ser Ala Pro Asn Glu Cys
114
115
                       165
                                            170
       Leu Trp Thr Asp Trp Leu Leu Glu Arg Lys Leu Tyr Gly Tyr Gln Ala
116
                                                            190
                                       185
117
                   180
       Gln His Tyr Val Cys Met Lys His Val Asp Gly Thr Cys Ser Trp Tyr
118
                                                        205
119
               195
                                   200
       Arg Gly His Leu Pro Leu Arg Lys Glu Phe Val Asp Ile Val Gln Pro
120
                                                    220
121
           210
                               215
122
123
                (2) INFORMATION FOR SEQ ID NO:3:
124
125
126
             (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 220 amino acids
127
128
               (B) TYPE: amino acid
129
               (C) STRANDEDNESS: single
130
               (D) TOPOLOGY: linear
131
             (ii) MOLECULE TYPE: peptide
132
133
             (vii) IMMEDIATE SOURCE:
134
                    (A) LIBRARY: METALLOPROTEINASES
135
                    (B) CLONE: TIMP-2
136
137
138
139
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
140
       Met Gly Ala Ala Arg Thr Leu Arg Leu Ala Leu Gly Leu Leu
141
                                            10
142
       Leu Ala Thr Leu Leu Arg Pro Ala Asp Ala Cys Ser Cys Ser Pro Val
143
144
                                        25
       His Pro Gln Gln Ala Phe Cys Asn Ala Asp Val Val Ile Arg Ala Lys
145
146
                                    40
       Ala Val Ser Glu Lys Glu Val Asp Ser Gly Asn Asp Ile Tyr Gly Asn
147
148
                               5.5
       Pro Ile Lys Arg Ile Gln Tyr Glu Ile Lys Gln Ile Lys Met Phe Lys
149
                           70
                                                75
150
       Gly Pro Glu Lys Asp Ile Glu Phe Ile Tyr Thr Ala Pro Ser Ser Ala
151
```

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/884,073

DATE: 12/17/97 TIME: 10:55:51 \$22123.raw

#### INPUT SET: S22123.raw Val Cys Gly Val Ser Leu Asp Val Gly Gly Lys Lys Glu Tyr Leu Ile Ala Gly Lys Ala Glu Gly Asp Gly Lys Met His Ile Thr Leu Cys Asp Phe Ile Val Pro Trp Asp Thr Leu Ser Thr Thr Gln Lys Lys Ser Leu Asn His Arg Tyr Gln Met Gly Cys Glu Cys Lys Ile Thr Arg Cys Pro Met Ile Pro Cys Tyr Ile Ser Ser Pro Asp Glu Cys Leu Trp Met Asp Trp Val Thr Glu Lys Asn Ile Asn Gly His Gln Ala Lys Phe Phe Ala Cys Ile Lys Arg Ser Asp Gly Ser Cys Ala Trp Tyr Arg Gly Ala Ala Pro Pro Lys Gln Glu Phe Leu Asp Ile Glu Asp Pro (2) INFORMATION FOR SEQ ID NO:4: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide (vii) IMMEDIATE SOURCE: (A) LIBRARY: METALLOPROTEINASES (B) CLONE: TIMP-3 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Thr Pro Trp Leu Gly Leu Ile Val Leu Leu Gly Ser Trp Ser Leu Gly Asp Trp Gly Ala Glu Ala Cys Thr Cys Ser Pro Ser His Pro Gln Asp Ala Phe Cys Asn Ser Asp Ile Val Ile Arg Ala Lys Val Val Gly Lys Lys Leu Val Lys Glu Gly Pro Phe Gly Thr Leu Val Tyr Thr Ile Lys Gln Met Lys Met Tyr Arg Gly Phe Thr Lys Met Pro His Val Gln Tyr Ile His Thr Glu Ala Ser Glu Ser Leu Cys Gly Leu Lys Leu Glu Val Asn Lys Tyr Gln Tyr Leu Leu Thr Gly Arg Val Tyr Asp Gly Lys Met Tyr Thr Gly Leu Cys Asn Phe Val Glu Arg Trp Asp Gln Leu Thr Leu Ser Gln Arg Lys Gly Leu Asn Tyr Arg Tyr His Leu Gly Cys Asn

#### RAW SEQUENCE LISTING PATENT APPLICATION US/08/884,073

DATE: 12/17/97 TIME: 10:55:56

```
INPUT SET: S22123.raw
      Cys Lys Ile Lys Ser Cys Tyr Tyr Leu Pro Cys Phe Val Thr Ser Lys
206
207
                           150
                                               155
      Asn Glu Cys Leu Trp Thr Asp Met Leu Ser Asn Phe Gly Tyr Pro Gly
208
209
                       165
                                           170
      Tyr Gln Ser Lys His Tyr Ala Cys Ile Arg Gln Lys Gly Gly Tyr Cys
210
                                                           190
                                      185
211
                   180
      Ser Trp Tyr Arg Gly Trp Ala Pro Pro Asp Lys Ser Ile Ile Asn Ala
212
                                   200
213
              195
      Thr Asp Pro
214
215
          210
216
217
               (2) INFORMATION FOR SEQ ID NO:5:
218
219
             (i) SEQUENCE CHARACTERISTICS:
220
               (A) LENGTH: 207 amino acids
221
               (B) TYPE: amino acid
222
               (C) STRANDEDNESS: single
223
               (D) TOPOLOGY: linear
224
225
             (ii) MOLECULE TYPE: peptide
226
227
             (vii) IMMEDIATE SOURCE:
228
                    (A) LIBRARY: METALLOPROTEINASES
229
                    (B) CLONE: TIMP-1
230
231
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
232
233
      Met Ala Pro Phe Glu Pro Leu Ala Ser Gly Ile Leu Leu Leu Trp
234
                                            10
235
      Leu Ile Ala Pro Ser Arg Ala Cys Thr Cys Val Pro Pro His Pro Gln
236
237
                                        25
                   20
       Thr Ala Phe Cys Asn Ser Asp Leu Val Ile Arg Ala Lys Phe Val Gly
238
239
                                    40
       Thr Pro Glu Val Asn Gln Thr Thr Leu Tyr Gln Arg Tyr Glu Ile Lys
240
241
                               55
      Met Thr Lys Met Tyr Lys Gly Phe Gln Ala Leu Gly Asp Ala Ala Asp
242
                           70
243
      Ile Arg Phe Val Tyr Thr Pro Ala Met Glu Ser Val Cys Gly Tyr Phe
244
                                                                95
                                            90
245
      His Arg Ser His Asn Arg Ser Glu Glu Phe Leu Ile Ala Gly Lys Leu
246
                                       105
                                                            110
247
                   100
       Gln Asp Gly Leu Leu His Ile Thr Thr Cys Ser Phe Val Ala Pro Trp
248
249
              115
                                   120
       Asn Ser Leu Ser Leu Ala Gln Arg Arg Gly Phe Thr Lys Thr Tyr Thr
250
251
                               135
       Val Gly Cys Glu Glu Cys Thr Val Phe Pro Cys Leu Ser Ile Pro Cys
252
                                                155
253
                           150
       Lys Leu Gln Ser Gly Thr His Cys Leu Trp Thr Asp Gln Leu Leu Gln
254
255
                       165
                                            170
       Gly Ser Glu Lys Gly Phe Gln Ser Arg His Leu Ala Cys Leu Pro Arg
256
```

Glu Pro Gly Leu Cys Thr Trp Gln Ser Leu Arg Ser Gln Ile Ala

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# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/884,073

Original Text

DATE: 12/17/97 TIME: 10:56:01

INPUT SET: S22123.raw

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